

TORX PARALOBE™

HIGH TORQUE TRANSFER DRIVE SYSTEM

OUTPERFORMING EVERY OTHER DRIVE SYSTEM.

The TORX PARALOBE® Drive System was developed by Acument Global Technologies, born as a result of listening to our customers' needs and concerns with other drive systems. It also improves upon the benefits of our TORX® and TORX PLUS® drive systems by offering increasing drive bit strength, life, and increasing torque 20% over TORX PLUS® drive system!

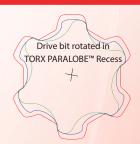


FEATURES

- ▶ Unique geometry, patentable drive system
- ► Greater drive system cross-sectional area versus TORX® and TORX PLUS® drive systems
- ► 'Full surface drive contact' with reduced drive bit/recess contact stresses versus TORX® and TORX PLUS® drive systems
- Vertical straight sidewalls and reduced bit/recess wobble producing a more solid 'fit'
- Controlled gaging and oversized recess lobe option



- TORX PARALOBE™
- TORX PLUS®
- TORX®



TORX PARALOBE™ drive system has greater cross-sectional area versus TORX® and TORX PLUS® drive systems

BENEFITS

- ► Lobe geometry increased approximately 6% over TORX PLUS® drive system producing:
 - Approximately 20% greater drive bit torsional strength and drive systems strength
 - Approximately 100% greater finite drive bit fatigue life
- Drive size consideration may improve dead strength ratio and weight reduction
- Potential for less coating damage during installation
- Oversized recess lobe option reduces effects of recess fill

IDEAL APPLICATIONS

- Ultra high strength fasteners
- Aerospace fasteners
- ▶ Torque-to-yield applications

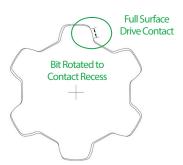
- Cutter screws
- Miniature screws
- Fasteners with heavy coatings

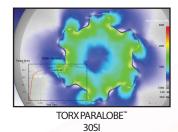


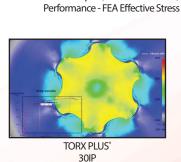


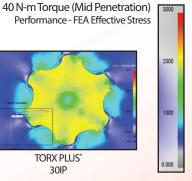
TORX PARALOBE™ GEOMETRY AND DESIGN

The TORX PARALOBE™ Drive System features unique geometry resulting in 'full surface drive contact' to reduce drive bit/recess contact stresses.









TORX PLUS®		
DRIVE SIZE	ULTIMATE TORQUE (N-m)	
15IP	9.62	
30IP	47.18	
50IP	194.54	

TORX PARALOBE™		
DRIVE SIZE	ULTIMATE TORQUE (N-m)	
1581	11.6	
30SI	57.6	
50\$	237	

% INCREASE
20.6%
22.1%
21.8%

TORX PARALOBE™ APPROXIMATELY 20% GREATER DRIVE BIT TORSIONAL STRENGTH VS. TORX PLUS®

TORX®		
DRIVE SIZE	ULTIMATE TORQUE (N-m)	
T15	7.69	
Т30	37.4	
T50	158.75	

TORX PARALOBE™		
DRIVE SIZE	ULTIMATE TORQUE (N-m)	
1581	11.6	
30\$1	57.6	
50SI	237	

% INCREASE	
50.8%	
54.0%	
49.3%	

TORX PARALOBE[™] APPROXIMATELY 50% GREATER DRIVE BIT TORSIONAL STRENGTH VS. TORX®

STANDARD DESIGN GUIDELINES:

Drive sizes: 1SI and 110SI

Fastener sizes: M2 thru M25

Head design: Can be used with all head designs

